

SEQUENCE LISTING

(1) GENERAL INFORMATION:

- (i) APPLICANT: Kaufman, Randal J. Wasley, Louise
- (ii) TITLE OF INVENTION: Method of Increasing Yield of Mature Proteins
- (iii) NUMBER OF SEQUENCES: 2
 - (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Genetics Institute, Inc.
 - (B) STREET: 87 CambridgePark Drive
 - (C) CITY: Cambridge
 - (D) STATE: Massachusetts
 - (E) COUNTRY: U.S.A.
 - (F) ZIP: 02140
 - (V) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
 - (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 07/621,092
 - (B) FILING DATE: 26-NOV-1990
 - (C) CLASSIFICATION: 424
- (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Kapinos, Ellen J.
 - (B) REGISTRATION NUMBER: 32,245
 - (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: (617)876-1170
 - (B) TELEFAX: (617)876-5851
- (2) INFORMATION FOR SEQ ID NO:1:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2385 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: unknown
 - (ii) MOLECULE TYPE: DNA (genomic)

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- (A) NAME/KEY: CDS
 (B) LOCATION: 1..2382

(x) PUBLICATION INFORMATION:

- (A) AUTHORS: van den Ouweland, A.M.W. (C) JOURNAL: Nucleic Acids Res. (D) VOLUME: 18

- (F) PAGES: 664-
- (G) DATE: 1990

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

				TGG Trp				48
				CAG Gln 25				96
				GGC Gly				144
				CTG Leu				192
				ACG Thr				240
				AGG Arg				288
				ACT Thr 105				336
				CAG Gln				384
				GCC Ala				432
				GAC Asp				480

			TAT Tyr					528
			CAG Gln					576
			GCG Ala					624
			GTG Val 215					672
			GTG Val					720
			ATC Ile					768
			GTG Val					816
			AGC Ser					864
			AAC Asn 295					912
			AGT Ser					960
			CCG Pro					1008
			AGT Ser					1056
			AAG Lys					1104

			GCC Ala 375						1152
			CGG Arg						1200
			AAT Asn						1248
			TCA Ser						1296
			CAG Gln						1344
			CTC Leu 455						1392
			GTG Val						1440
			GCT Ala						1488
			ATC Ile						1536
			AGG Arg						1584
			ACA Thr 535						1632
			ATT Ile						1680
			ACC Thr						1728

		CCA Pro						1776
		GTG Val						1824
		TGC Cys						1872
		GAG Glu 630						1920
		GCC Ala						1968
		TGC Cys						2016
		CAA Gln						2064
		CTG Leu						2112
		CCC Pro 710						2160
		GTG Val						2208
		TTT Phe						2256
		TCC Ser						2304
		GAC Asp						2352

ACC GCC TTT ATC AAA GAC CAG AGC GCC CTC TGA Thr Ala Phe Ile Lys Asp Gln Ser Ala Leu 790

2385

(2) INFORMATION FOR SEQ ID NO:2:

145

(i) SEQUENCE CHARACTERISTICS:

150

165

- (A) LENGTH: 794 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Met Glu Leu Arg Pro Trp Phe Leu Trp Val Val Pro Pro Thr Gly Thr 15 1 Leu Val Leu Leu Ala Ala Asp Ala Gln Gly Gln Lys Val Phe Thr Asn 20 Thr Trp Ala Val Arg Ile Pro Gly Gly Pro Ala Val Ala Asn Ser Val 40 Ala Arg Lys His Gly Phe Leu Asn Leu Gly Gln Ile Phe Gly Asp Tyr Tyr His Phe Trp His Arg Gly Val Thr Lys Arg Ser Leu Ser Pro His Arg Pro Arg His Ser Arg Leu Gln Arg Glu Pro Gln Val Gln Trp Leu 95 Glu Gln Gln Val Ala Lys Arg Arg Thr Lys Arg Asp Val Tyr Gln Glu 100 105 Pro Thr Asp Pro Lys Phe Pro Gln Gln Trp Tyr Leu Ser Gly Val Thr 120 Gln Arg Asp Leu Asn Val Lys Ala Ala Trp Ala Gln Gly Tyr Thr Gly 130 135 His Gly Ile Leu Val Ser Ile Leu Asp Asp Gly Ile Glu Lys Asn His

Asp Gln Asp Pro Asp Pro Gln Pro Arg Tyr Thr Gln Met Asn Asp Asn 180 185 190

Pro Asp Leu Ala Gly Asn Tyr Asp Pro Gly Ala Ser Phe His Val Asn

155

170

Arg His Gly Thr Arg Cys Ala Gly Glu Val Ala Ala Val Ala Asn Asn Arg Val Cys Gly Val Gly Val Ala Tyr Asn Ala Arg Ile Gly Gly Val Arg Met Leu Asp Gly Glu Val Thr Asp Ala Val Glu Ala Arg Ser Leu Gly Leu Asn Pro Asn His Ile His Ile Tyr Ser Ala Ser Trp Gly Pro Glu Asp Asp Gly Lys Thr Val Asp Gly Pro Ala Arg Leu Ala Glu Glu Ala Phe Phe Arg Gly Leu Ser Gln Gly Arg Gly Gly Leu Gly Ser Ile Phe Val Trp Ala Ser Gly Asn Gly Gly Arg Glu His Asp Ser Cys Asn Cys Asp Gly Tyr Thr Asn Ser Ile Tyr Thr Leu Ser Ile Ser Ser Ala Thr Gln Phe Gly Asn Val Pro Trp Tyr Ser Glu Ala Cys Ser Ser Thr Leu Ala Thr Thr Tyr Ser Ser Gly Asn Gln Asn Glu Lys Gln Ile Val Thr Thr Asp Leu Arg Gln Lys Cys Thr Glu Ser His Thr Gly Thr Ser Ala Ser Ala Pro Leu Ala Ala Gly Ile Ile Ala Leu Thr Leu Glu Ala Asn Lys Asn Leu Thr Trp Arg Asp Met Gln His Leu Val Val Gln Thr Ser Lys Pro Ala His Leu Asn Ala Asn Asp Trp Ala Thr Asn Gly Val Gly Arg Lys Val Ser His Ser Tyr Gly Tyr Gly Leu Phe Asp Ala Gly Ala Met Val Ala Leu Ala Gln Asn Trp Thr Thr Val Ala Pro Gln Arg Lys Cys Ile Ile Asp Ile Leu Thr Glu Pro Lys Asp Ile Gly Lys Arg Leu Asp Leu Arg Asn Thr Val Thr Ala Ser Leu Gly Glu Pro Asn His

Ile Thr Arg Leu Glu His Ala Gln Ala Arg Leu Thr Leu Ser Tyr Asn Arg Arg Gly Asp Leu Ala Ile His Leu Val Ser Pro Met Gly Thr Arg Ser Thr Leu Leu Ala Ala Arg Pro His Asp Tyr Ser Ala Asp Gly Phe Asn Asp Trp Ala Phe Met Thr Thr His Ser Trp Asp Asp Asp Pro Ser Gly Glu Trp Val Leu Glu Ile Glu Asn Thr Ser Glu Ala Asn Asn Tyr Gly Thr Leu Thr Asn Ser Thr Leu Val Leu Tyr Gly Thr Ala Pro Asp Gly Leu Pro Val Pro Pro Glu Ser Ser Gly Cys Lys Thr Leu Thr Ser Ser Gln Ala Cys Val Val Cys Glu Glu Gly Phe Ser Leu His Gln Lys Ser Cys Val Gln His Cys Pro Pro Gly Phe Ala Pro Gln Val Leu Asp Thr His Tyr Ser Thr Glu Asn Asp Val Glu Thr Ile Arg Ala Ser Val Cys Ala Pro Cys His Ala Ser Cys Ala Thr Cys Gln Gly Pro Ala Leu Thr Asp Cys Leu Ser Cys Pro Ser His Ala Ser Leu Asp Pro Val Glu Gln Thr Cys Ser Arg Gln Ser Gln Ser Ser Arg Glu Ser Pro Pro Gln Gln Gln Pro Pro Arg Leu Pro Pro Glu Val Glu Ala Gly Gln Arg Leu Arg Ala Gly Leu Leu Pro Ser His Leu Pro Glu Val Val Ala Gly Leu Ser Cys Ala Phe Ile Val Leu Val Phe Val Thr Val Phe Leu Leu Gln Leu Arg Ser Gly Phe Ser Phe Arg Gly Val Lys Val Tyr Thr Met

Asp Arg Gly Leu Ile Ser Tyr Lys Gly Leu Pro Pro Glu Ala Trp Gln 755 760 765

Glu Glu Cys Pro Ser Asp Ser Glu Glu Asp Glu Gly Arg Gly Glu Arg
770 775 780

Thr Ala Phe Ile Lys Asp Gln Ser Ala Leu 785 790